

Michael O. Leavitt Governor Kathleen Clarke Executive Director Lowell P. Braxton Division Director 1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax) 801-538-7223 (TDD)

April 17, 2001

CERTIFIED RETURN RECEIPT 7000 0520 0021 7582 8951

Gayle McKeachnie McKeachnie, Allred, McClelland & Trotter Consultant for Ziegler Chemical & Mineral Corporation 121 West Main Street Vernal, Utah 84078

Re:

Reclamation Cost Estimate 5-Year Review Comments, Ziegler Chemical & Mineral Corporation, Ziegler Gilsonite Operations, M/047/013, Uintah County, Utah

Dear Mr. McKeachnie:

Thank you for the Ziegler comments received January 24, 2001, which refer to the Division's draft reclamation cost estimate of November 2000. The comments were in the form of a marked up copy of the Division's draft estimate. We realize this detailed cost estimate for the entire operation is lengthy and required a considerable amount of time to review. We appreciate your efforts to provide detailed comments so we may arrive at a more accurate estimate.

We have prepared a revised reclamation estimate (copy attached) reflecting the new information provided by Ziegler that we could accept. Changes in the estimate are highlighted with shading. Ziegler information we could not accept is described below with justification for the rejection, or with a request for additional information to justify acceptance. Please review these comments and the cost estimate and indicate acceptance or provide corrections within 90 days or by July 16, 2001.

In addition, please review and provide comments on the Mine Site Location Table, and Mine Sites Bonding Table, which were included with the Division's November 29, 2000 letter. Please provide a comment acknowledging the information for each site is accurate, or provide corrections regarding the status of the mine site, acreage, etc.

COMMENTS ON THE ZIEGLER MARKED UP ESTIMATE

INDEPENDENT 2

Ziegler indicated there is no need for a dump truck and operator in the reclamation of this site. The omission of this line item is also suggested for nearly all the other satellite mine sites as well. The Ziegler estimate of July 17, 2000, for reclamation of site I-2 included a line item for a truck and trailer at a total cost of \$800. The Division's line item of a truck and operator was

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intended to reflect this line item. Please explain why a line item for a truck and operator should not be included in this estimate and the other mine sites.

A modification to the line item for the seed mix cost suggests a seeding rate of 12 lb/acre at a cost of \$36.25/lb for this site and nearly all the other mine sites. This equates to a cost of \$435/acre for seed. The Division recommended a 12.5 lb/acre seed mix for the ZI-95-1 site in February 1996, which was later proposed for the Shaft 8 Amendment in an August 3, 1998 letter. Please clarify whether the 12 lb/acre seed mix was intended to reflect the Division's proposed seed mix, and provide a current price quote to support this \$/lb cost.

A modification to the line item for fertilizer suggests a cost of \$0.14/lb for this site and nearly all the other sites. Please provide a current price quote to support this unit cost for fertilizer.

INDEPENDENT 3

The Division will modify the estimate for this site to reflect the absence of surface structures. Please provide a current quote or pricing information to support the fertilizer cost of \$28/ton at a local IFA store.

INDEPENDENT 4

The Division will modify the estimate for this site to reflect the structural removal costs for the headframe derrick as suggested by Ziegler. Please provide justification for the suggested omission of the two line items under the Earthwork and Grading section (dump truck and operator, dozer and operator).

INDEPENDENT 5 LITTLE BONANZA 1 LITTLE BONANZA 3 LITTLE BONANZA 8

LITTLE BONANZA 8A

The Division will modify the estimate for this site to reflect the absence of surface structures. Please explain whether the expanded metal cover over the shaft collar will require a different set of reclamation tasks than what is shown for this site.

LITTLE BONANZA 11 LITTLE BONANZA 12

MAIN #1

The Division will modify the estimate for this site to reflect the absence of structural removal costs. Please describe the tasks completed to date at this site in preparation for final reclamation

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to justify the omission of three of the line items under the Earthwork & Grading section of the estimate.

MAIN #2

The Division will modify the estimate for this site to reflect the absence of structural removal costs and concrete capping costs.

LITTLE EMMA -1 MIDDLE LITTLE EMMA 7

This site will need to be inspected during this spring for final reclamation release.

COTTONWOOD 1 & 2 and COTTONWOOD 3

Our files do not have documented site inspections for final release of these sites on State Land (ML-20781, ML-19868, ML-20779). Information from SITLA indicates the Ziegler leases for these sites have been terminated and the bonds released. Division files do not include documentation of a transfer from Ziegler to Lexco. Without a formal permit transfer, the change in leaseholder does not necessarily change the reclamation responsibility for the site. In order to release these sites and omit them from the cost estimate we will need a documented site inspection by Division and/or SITLA staff.

Assignment of a new lease to Lexco (ML-46785) for the same area previously leased by Ziegler may not pose a reclamation estimate problem, provided documentation of site reclamation or site conditions prior to issuance of the new lease is available. Please provide any additional background regarding the release of these sites.

COWBOY 1 FEDERAL COWBOY – LOTS 2-1 COWBOY SECTIONS 4-3

COWBOY NORTH VEIN - 1

The Division will recognize BLM bonding for this site when a specific amount in the statewide bond has been identified for reclamation of this site. The capping costs for this site have been modified based on Ziegler's comments.

ZI-95-1

The absence of structures and a shaft opening at this site will need to be verified by a site inspection. If Ziegler intends to construct these features at this site in the immediate future (within the next five years), then the omission of structure and shaft reclamation costs for this site would not be appropriate.

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PROCESSING FACILITIES

If you have any questions regarding this letter or wish to arrange a time and date to schedule a site inspection, please contact me at (801) 538-5286, or Tony Gallegos at (801) 538-5267.

Sincerely,

D. Wayne Hedberg Permit Supervisor

Minerals Reclamation Program

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Attachment: Division Reclamation Estimate - version April 12, 2001

cc: Chip Ziegler, Executive Vice President, Ziegler Chemical & Mineral Corporation

Stan Wagner, Ziegler Gilsonite Mines Stan Perkes, BLM State Office Pete Sokolosky, BLM Vernal FO

Will Stokes, SITLA

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Reclamation Surety Estimate Apr-2001 last revision Ziegler Chemical & Mineral Corporation **DRAFT** page 1 OF 12 Uintah County, Utah M/047/013 page name "main_calcs" Prepared by Utah Division of Oil, Gas & Mining O:\BOND\DATA\BONDING\m47-13-5yr.wb3

Productivity (# units) & tasks for I-2 reclamation w NDEPENDENT 2	1.4 acre			ATENTED
Structural Removal	# units	<u>units</u>	\$/unit	<u>\$</u>
0 ton crane+operator+oiler	10	hrs	244.21	2,442
laborers @ 15 hrs/each	30	hrs	35.00	1,050
/elder (equip)+welder+helper	10	hrs	111.74	1,117
lectrician	20	hrs	49.35	987
ickup truck	10	hrs	22.08	221
arthwork & Grading				
ont end loader & operator	0	hrs	110.18	0
notor grader & operator	10	hrs	96.83	968
ump truck & operator	10	hrs	90.88	909
ackhoe & operator	10	hrs	87.97	880
ozer & operator	8	hrs	226.10	1,809
	· ·	10	220.10	1,000
Capping				
oncrete (in CY)	4	CY	90.00	360
laborers @ 15 hrs/each	30	hrs	35.00	1,050
orms, etc. (SUM)	1	sum	250.00	250
ebar (SUM)	1	sum	100.00	100
Revegetation				
actor + drill + operator	1.4	acre	83.45	117
eed mix	1.4	acre	160.00	224
ertilizer @ 200 lb/acre	1.4	acre	100.00	140
_		Subtotal fo		\$12,624
Avg. cost per acre	\$9,017			
NDEPENDENT 3 Structural Removal - NONE	1.38 acre	!4	A 114	•
O lon grane coperator collen	# units	<u>units</u>	<u>\$/unit</u>	<u>\$</u>
faborers @: 15uirs/each	0	hre hrs	244/21 35/00	0
relder:(equip)#welder+helper:	0	hrs	111.74	0
legiridan	0	hrs	49,35	0
ickup truck	0	hrs	22.08 <i>°</i>	. 0
with a rate of the state of the	· · · · · · · · · · · · · · · · · · ·	CHI?	22.00	, 0
arthwork & Grading				
ont end loader & operator	0	hrs	110.18	0
notor grader & operator	10	hrs	96.83	968
ump truck & operator	10	hrs	90.88	909
ackhoe & operator	10	hrs	87.97	880
ozer & operator	8	hrs	226.10	1,809
Sapping				
oncrete (in CY)	4	CY	90.00	360
laborers @ 15 hrs/each	30	hrs	35.00	1,050
orms, etc. (SUM)	1	sum	250.00	250
ebar (SUM)	1	sum	100.00	100
	1	Juill	100.00	100
Revegetation				
actor + drill + operator	1.38	acre	83.45	115
eed mix	1.38	acre	160.00	221
- dili	1.38	acre	100.00	138
ertilizer @ 200 lb/acre	1.30	Subtotal fo		

⁻Hours & acreage in this estimate are from the 1987 surety estimate & Ziegler 1-23-01 information.

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INDEPENDENT 4	1.41	acre				
Structural Removal	1.41			Classic.	•	
50 ton crane+operator+oiler		# units	<u>units</u> hrs	<u>\$/unit</u>	\$	
2 laborers @ 15 hrs/each		· · · 4 · · ·	hrs	244.21 35.00	977	
welder (equip)+welder+helper		2	hrs	111.74	140 223	
electrician		\^2	hrs	49.35	0	
pickup truck		Ŏ	hrs	22.08	0	
•		,	•	22.00	· ·	
Earthwork & Grading						
front end loader & operator		0	hrs	110.18	0	
motor grader & operator		10	hrs	96.83	968	
dump truck & operator		10	hrs	90.88	909	<=
backhoe & operator		10	hrs	87.97	880	•
dozer & operator		8	hrs	226.10	1,809	<=
					1,000	
<u>Capping</u>						
concrete (in CY)		4	CY	90.00	360	
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050	
forms, etc. (SUM)		1	sum	250.00	250	
rebar (SUM)		1	sum	100.00	100	
<u>Revegetation</u>						
tractor + drill + operator		1.41	acre	83.45	118	
seed mix		1.41	acre	160.00	226	
fertilizer @ 200 lb/acre		1.41	acre	100.00	141	
	•		Subtotal fo	or this site	\$8,150	
Avg. cost per acre		\$ 5,780				
INDEPENDENT 5	1.2	acre		STATE LANDS		
Structural Removal		# units	<u>units</u>	<u>\$/unit</u>	<u>\$</u>	
50 ton crane+operator+oiler		10	hrs	244.21	2,442	
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050	
welder (equip)+welder+helper electrician		10	hrs	111.74	1,117	
		20	hrs	49.35	987	
pickup truck		10	hrs	22.08	221	
Earthwork & Grading						
		0	L	440.40	_	
front end loader & operator motor grader & operator		0	hrs	110.18	0	
dump truck & operator		10 10	hrs	96.83	968	
backhoe & operator		10	hrs hrs	90.88 87.97	909	
dozer & operator		8	hrs	226.10	880 1,809	
and a operator		J	1113	220.10	1,009	
Capping						
concrete (in CY)		4	CY	90.00	360	
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050	
forms, etc. (SUM)		1	sum	250.00	250	
rebar (SUM)		1	sum	100.00	100	
\-,		•	Q 4 1111	100.00	100	
Revegetation						
tractor + drill + operator		1.2	acre	83.45	100	
seed mix		1.2	acre	160.00	192	
fertilizer @ 200 lb/acre		1.2	acre	100.00	120	
_	•		Subtotal fo		\$12,555	
Avg. cost per acre		\$10,463			÷ -,000	
			·			

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M/047/013 Uintah County, Utah Prepared by Utah Division of Oil, Gas & Mining		page name "main O:\BOND\DATA\E		\m47-13-5yr.wb3

LITTLE BONANZA 1(vent shaft)	0.5	acre		VERIFY RECLAIM	ED 2.11 ACRES
Structural Removal		# units	units	\$/unit	\$
50 ton crane+operator+oiler		0	hrs	244.21	0
2 laborers		Ö	hrs	35.00	Ö
welder (equip)+welder+helper		Ö	hrs	111.74	Ö
electrician		Ö	hrs	49.35	Ö
pickup truck		5	hrs	22.08	110
Prompt description		J	0	22.00	1.0
Earthwork & Grading					
front end loader & operator		0	hrs	110.18	0
motor grader & operator		5	hrs	96.83	484
dump truck & operator		5	hrs	90.88	454
backhoe & operator		5	hrs	87.97	440
dozer & operator		4	hrs	226.10	904
Capping					
concrete (in CY)		4	CY	90.00	360
2 laborers		20	hrs	35.00	700
forms, etc. (SUM)		1	sum	250.00	250
rebar (SUM)		1	sum	100.00	100
Revegetation					
tractor + drill + operator		0.5	acre	83.45	42
seed mix		0.5	acre	160.00	80
fertilizer @ 200 lb/acre		0.5	acre	100.00	50
A 4		47.050	Subtotal	for this site	\$3,975
Avg. cost per acre LITTLE BONANZA 3 1	.14	\$7,950 acre		STATE LANDS (PA	TENTED2
Structural Removal		# units	units	\$/unit	\$ \$
50 ton crane+operator+oiler		10	hrs	244.21	2,442
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050
welder (equip)+welder+helper		10	hrs	111.74	1,117
electrician		20	hrs	49.35	987
pickup truck		10	hrs	22.08	221
Earthwork & Grading					
front end loader & operator		0	hrs	110.18	0
motor grader & operator		10	hrs	96.83	968
dump truck & operator		10	hrs	90.88	909
backhoe & operator		10	hrs	87.97	880
dozer & operator		8	hrs	226.10	1,809
Canaina					
Capping			6 14	22.22	0.55
concrete (in CY)		4	CY	90.00	360
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050
——————————————————————————————————————				050.00	
forms, etc. (SUM)		1	sum	250.00	250
			sum sum	250.00 100.00	250 100
forms, etc. (SUM) rebar (SUM)		1			
forms, etc. (SUM) rebar (SUM) Revegetation		1	sum	100.00	100
forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator		1 1 1.14	sum	100.00 83.45	100 95
forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator seed mix		1 1 1.14 1.14	sum acre acre	100.00 83.45 160.00	100 95 182
forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator		1 1 1.14	sum acre acre acre	100.00 83.45 160.00 100.00	95 182 114
forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator seed mix		1 1 1.14 1.14	sum acre acre acre	100.00 83.45 160.00	100 95 182

Reclamation Surety Estimate

Ziegler Chemical & Mineral Corporation

M/047/013

Uintah County, Utah

Prepared by Utah Division of Oil, Gas & Mining

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LITTLE BONANZA 8	1.60	acre	·	ASSUMED ACRE	AGE - PATENTED
Structural Removal		# units	units	\$/unit	
50 ton crane+operator+oiler		10	hrs	244.21	\$ 2,442
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050
welder (equip)+welder+helper		10	hrs	111.74	1,117
electrician		20	hrs	49.35	987
pickup truck		10	hrs	22.08	221
•		.0	*****	22.00	22 1
Earthwork & Grading					
front end loader & operator		0	hrs	110.18	0
motor grader & operator		10	hrs	96.83	968
dump truck & operator		10	hrs	90.88	909
backhoe & operator		10	hrs	87.97	880
dozer & operator		8	hrs	226.10	1,809
_					•
Capping					
concrete (in CY)		4	CY	90.00	360
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050
forms, etc. (SUM)		1	sum	250.00	250
rebar (SUM)		1	sum	100.00	100
5					
Revegetation					
tractor + drill + operator		1.6	acre	83.45	134
seed mix		1.6	acre	160.00	256
fertilizer @ 200 lb/acre	_	1.6	acre	100.00	160
			Subtotal	for this site	\$12,692
Avg. cost per acre		#7 ^^^			
		\$7,933		EOO A DELATA VA (E)	
LITTLE BONANZA 8A	1	acre	unite	ESCAPEWAY/VEN	
LITTLE BONANZA 8A Structural Removal - NONE	1	acre # units	<u>units</u>	\$/unit	<u>\$</u>
Structural Removal - NONE 50 ton crane+operator-oiler	1	acre # units 0	hrs	<u>\$/unit</u> 244.21	\$ 0
Structural Removal - NONE 50 ton crane+operator piler- 2 laborers	1	acre # units 0 0	hrs hrs	<u>\$/unit</u> 244:21 35.00	\$ 0 0
Structural Removal - NONE 50 ton crane+operator; oiler 2 laborers welder (equip)+welder+helper	1	acre # units 0 0 0	hrs hrs hrs	<u>\$/unit</u> 244:21 35.00 111.74	\$ 0 0 0
Structural Removal - NONE 50 ton crane+operator-oiler 2 laborers welder (equip)+welder+helper electrician	1	# units 0 0 0 0	hrs hrs hrs hrs	<u>\$/unit</u> 244:21 35.00 111.74 49.35	\$ 0 0 0 0
Structural Removal - NONE 50 ton crane+operator; oiler 2 laborers welder (equip)+welder+helper	1	acre # units 0 0 0	hrs hrs hrs	<u>\$/unit</u> 244:21 35.00 111.74	\$ 0 0 0
Structural Removal - NONE 50 ton crane+operator-oiler 2 laborers welder (equip)+welder+helper electrician	1	# units 0 0 0 0	hrs hrs hrs hrs	<u>\$/unit</u> 244:21 35.00 111.74 49.35	\$ 0 0 0 0
Structural Removal - NONE 50 ton crane+operator-biler 2 laborers welder (equip)+welder+helper electrician pickup truck	1	# units 0 0 0 0	hrs hrs hrs hrs	\$/unit 244:21 35,00 111.74 49.35 22.08	\$ 0 0 0 0
LITTLE BONANZA 8A Structural Removal - NONE 50 ton crane+operator offer- 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading	1	acre # units 0 0 0 0 0	hrs hrs hrs hrs	\$/unit 244.21 35.00 111.74 49.35 22.08	\$ 0 0 0 0 0
LITTLE BONANZA 8A Structural Removal - NONE 50 ton crane+operator offer 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator	1	acre # units 0 0 0 0 0	hrs hrs hrs hrs hrs	\$/unit 244:21 35,00 111.74 49.35 22.08	\$ 0 0 0 0 0
Structural Removal - NONE 50 ton crane+operator-toiler 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator	1	acre # units 0 0 0 0 0	hrs hrs hrs hrs hrs	\$/unit 244.21 35.00 111.74 49.35 22.08	\$ 0 0 0 0 0
Structural Removal - NONE 50 ton crane+operator-toiler 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator	1	acre # units 0 0 0 0 0 0	hrs hrs hrs hrs hrs	\$/unit 244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88	\$ 0 0 0 0 0 0 968 909
Structural Removal - NONE 50 ton crane+operator oiler- 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator dozer & operator	1	acre # units 0 0 0 0 0 10 10 10	hrs hrs hrs hrs hrs hrs hrs	\$/unit 244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97	\$ 0 0 0 0 0 0 0 968 909 880
Structural Removal - NONE 50 ton crane+operator offer- 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator dozer & operator Capping	1	acre # units 0 0 0 0 0 0 10 10 10 8	hrs hrs hrs hrs hrs hrs hrs	\$/unit 244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10	\$ 0 0 0 0 0 0 0 968 909 880
Structural Removal - NONE 50 ton crane+operator offer- 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator backhoe & operator dozer & operator Capping concrete (in CY)	1	acre # units 0 0 0 0 0 0 10 10 10 8	hrs hrs hrs hrs hrs hrs hrs hrs hrs	\$/unit 244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10	\$ 0 0 0 0 0 0 0 968 909 880
Structural Removal - NONE 50 ton crane+operator piler 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each	1	acre # units 0 0 0 0 0 10 10 10 8	hrs hrs hrs hrs hrs hrs hrs	\$/unit 244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 90.00 35.00	\$ 0 0 0 0 0 0 968 909 880 1,809
Structural Removal - NONE 50 ton crane+operator differ- 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM)	1	0 0 0 0 0 0 0 0 0 0 10 10 10 8	hrs	\$/unit 244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 90.00 35.00 250.00	\$ 0 0 0 0 0 0 0 968 909 880 1,809
Structural Removal - NONE 50 ton crane+operator piler 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each	1	acre # units 0 0 0 0 0 10 10 10 8	hrs	\$/unit 244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 90.00 35.00	\$ 0 0 0 0 0 0 968 909 880 1,809
Structural Removal - NONE 50 ton crane+operator oiler- 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM)	1	0 0 0 0 0 0 0 0 0 0 10 10 10 8	hrs	\$/unit 244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 90.00 35.00 250.00	\$ 0 0 0 0 0 0 0 968 909 880 1,809
Structural Removal - NONE 50 ton crane+operator offer- 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation	1	acre # units 0 0 0 0 0 10 10 10 8 4 30 1 1	hrs	\$/unit 244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 90.00 35.00 250.00 100.00	\$ 0 0 0 0 0 0 0 968 909 880 1,809 360 1,050 250 100
Structural Removal - NONE 50 ton crane+operator offer 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator	1	acre # units 0 0 0 0 0 10 10 10 10 10 11 11 11 11	hrs	\$/unit 244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 90.00 35.00 250.00 100.00	\$ 0 0 0 0 0 0 0 968 909 880 1,809 360 1,050 250 100
Structural Removal - NONE 50 ton crane+operator differ- 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator backhoe & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator seed mix	1	acre # units 0 0 0 0 0 10 10 10 8 4 30 1 1 1	hrs	\$/unit 244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 90.00 35.00 250.00 100.00 83.45 160.00	\$ 0 0 0 0 0 0 0 968 909 880 1,809 360 1,050 250 100
Structural Removal - NONE 50 ton crane+operator offer 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator	1	acre # units 0 0 0 0 0 10 10 10 10 10 11 11 11 11	hrs	\$/unit 244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 90.00 35.00 250.00 100.00 83.45 160.00 100.00	\$ 0 0 0 0 0 0 968 909 880 1,809 360 1,050 250 100
Structural Removal - NONE 50 ton crane+operator differ- 2 laborers welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator backhoe & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator seed mix	1	acre # units 0 0 0 0 0 10 10 10 8 4 30 1 1 1	hrs	\$/unit 244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 90.00 35.00 250.00 100.00 83.45 160.00	\$ 0 0 0 0 0 0 0 968 909 880 1,809 360 1,050 250 100

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LITTLE BONANZA 11	1.01	acre	**		
Structural Removal		# units	units	\$/unit	<u>\$</u>
50 ton crane+operator+oiler		10	hrs	244.21	± 2,442
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050
welder (equip)+welder+helper		10	hrs	111.74	1,117
electrician		20	hrs	49.35	987
pickup truck		10	hrs	22.08	221
pierrap traerr		.0	1110	22.00	42 1
Earthwork & Grading					
front end loader & operator		0	hrs	110.18	0
motor grader & operator		10	hrs	96.83	968
dump truck & operator		10	hrs	90.88	909
backhoe & operator		10	hrs	87.97	880
dozer & operator		8	hrs	226.10	1,809
Conning					
Capping					
concrete (in CY)		4	CY	90.00	360
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050
forms, etc. (SUM)		1	sum	250.00	250
rebar (SUM)		1	sum	100.00	100
Revegetation					
tractor + drill + operator		1.01	acre	83.45	84
seed mix		1.01	acre	160.00	162
fertilizer @ 200 lb/acre		1.01	acre	100.00	101
10.111201 @ 200 15/4010			Subtotal fo		\$12,490
Avg. cost per acre		\$12,366			
LITTLE BONANZA 12	1.51	acre			
Structural Removal		<u># units</u>	<u>units</u>	\$/unit	<u>\$</u>
50 ton crane+operator+oiler		10	hrs	244.21	2,442
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050
welder (equip)+welder+helper		10	hrs	111.74	1,117
electrician		20	hrs	49.35	987
pickup truck		10	hrs	22.08	221
Earthwork & Grading					
front end loader & operator		0	hrs	110.18	0
motor grader & operator		10	hrs	96.83	968
dump truck & operator		10	hrs	90.88	909
backhoe & operator		10	hrs	87.97	880
dozer & operator		8	hrs	226.10	1,809
·					
Capping					
concrete (in CY)		4	CY	90.00	360
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050
forms, etc. (SUM)		1	sum	250.00	250
rebar (SUM)		1	sum	100.00	100
Revegetation					
tractor + drill + operator		1.51	acre	83.45	126
seed mix			acre	160.00	242
fertilizer @ 200 lb/acre		1.51 1.51	acre	100.00	242 151
ierunzer @ 200 ibracre		1.51	acre Subtotal fo		\$12,662
Avg. cost per acre		\$8,385	Jubiolai IC	n uno oile	Ψ12,002
Avy. cost per acre		\$0,000			

Reclamation Surety Estimate

Ziegler Chemical & Mineral Corporat

M/047/013

Uintah County, Utah

Prepared by Utah Division of Oil, Gas & Mining

Iast revision

12-Apr*2001

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MAIN #1	1 acre		BLM	VENT SHAFT
Structural Removal - NONE	# units	units	\$/unit	\$
50 ton crane+operator+oiler	0	hrs	244.21	y
2 laborers	Ō	hrs	35.00	
welder (equip)+welder+helper	Ö	hrs	111 ₄ 74	
electrician	Ŏ	hrs	49.35	-
pickup truck	Ö	hrs	22.08	7
Earthwork & Grading				
front end loader & operator	0	hrs	110.18	0
motor grader & operator	10	hrs	96.83	0 968
dump truck & operator	10	hrs	90.88	909
backhoe & operator	10	hrs	87.97	880
dozer & operator	8	hrs	226.10	1,809
<u>Capping</u>				
concrete (in CY)	4	CY	90.00	360
2 laborers @ 15 hrs/each	30	hrs	35.00 35.00	360 1.050
forms, etc. (SUM)	1	sum	250.00	1,050
rebar (SUM)	1	sum	100.00	250 100
Revegetation				
tractor + drill + operator	1	acre	83.45	00
seed mix	1	acre	160.00	83 160
fertilizer @ 200 lb/acre	1	acre	100.00	160 100
			for this site	100 \$6,669
Avg. cost per acre	\$6,669	- a = (O(a)	io. and old	Ψ0,009
MAIN #2	1 acre	 	PATENTED	VENT SHAFT
Structural Removal - NONE	# units	units	\$/unit	\$
50 ton crane+operator+oiler	0	hrs	244.21	Ψ 0
2 laborers @ 15 hrs/each	Ŏ	hrs	35.00	0
velder (equip)+welder+helper	Ö	hrs	111.74	0
electrician	Ö	hrs	49.35	Ö
pickup truck	Ö	hrs	22.08	0
Earthwork & Grading				
ront end loader & operator	0	hrs	110.18	0
notor grader & operator	10	hrs	96.83	968
dump truck & operator	10	hrs	90.88	909
packhoe & operator	10	hrs	87.97	880
lozer & operator	8	hrs	226.10	1,809
Capping - CAPPED				
concrete (in CY)	0	CY	90.00	0
laborers @ 15 hrs/each	0	hrs	35.00	Ŏ
orms, etc. (SUM)	0	sum	250.00	. 0
ebar (SUM)	0	sum	100.00	Ô
<u>Revegetation</u>				
ractor + drill + operator	1	acre	83.45	83
seed mix	1	acre	160.00	160
ertilizer @ 200 lb/acre	1	acre	100.00	100
=				
		Subtotal	for this site	\$4,909

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LITTLE EMMA -1 MIDDLE	1.10	acre		T	
Structural Removal	-	# units	units	\$/unit	<u>\$</u>
50 ton crane+operator+oiler		10	hrs	244.21	2,442
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050
welder (equip)+welder+helper		10	hrs	111.74	1,117
electrician		20	hrs	49.35	987
pickup truck		10	hrs	22.08	221
		10	1110	22.00	221
Earthwork & Grading					
front end loader & operator		0	hrs	110.18	0
motor grader & operator		10	hrs	96.83	968
dump truck & operator		10	hrs	90.88	909
backhoe & operator		10	hrs	87.97	880
dozer & operator		8	hrs	226.10	1,809
		•	1113	220.10	1,009
<u>Capping</u>					
concrete (in CY)		4	CY	90.00	360
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050
forms, etc. (SUM)		1	sum	250.00	250
rebar (SUM)		1	sum	100.00	100
· · · · /		•			.50
<u>Revegetation</u>					
ractor + drill + operator		1.1	acre	83.45	92
seed mix		1.1	acre	160.00	176
ertilizer @ 200 lb/acre		1.1	acre	100.00	110
_	•		Subtotal fo		\$12,521
Avg. cost per acre	4 4	\$11,382	DECLARATE	D 1000 INCC	OT FOR 5
	1.1	acre		D ~1996 - INSPE	
Structural Removal - NONE		# units	<u>units</u>	<u>\$/unit</u>	\$
50 ton crane+operator+oiler		0	hrs	244.21	0
2 laborers @ 15 hrs/each		0	hrs	35.00	0
velder (equip)+welder+helper		0	hrs	111.74	0
electrician		0	hrs	49.35	0
pickup truck		0	hrs	22.08	0
Earthwork & Grading					
front end loader & operator		0	hrs	110.18	0
motor grader & operator		10	hrs	96.83	968
dump truck & operator		10	hrs	90.88	909
backhoe & operator		10	hrs	87.97	880
dozer & operator		8	hrs	226.10	1,809
a opolatol		J	1113	220.10	1,003
Capping					
concrete (in CY)		4	CY	90.00	360
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050
forms, etc. (SUM)		1	sum	250.00	250
rebar (SUM)		1	sum	100.00	100
(ı	Juili	100.00	100
<u>Revegetation</u>					
tractor + drill + operator		1.1	acre	83.45	92
seed mix		1.1	acre	160.00	176
fertilizer @ 200 lb/acre		1.1	acre	100.00	110
0 =				or this site	\$6,703
			יי ומוטוטוטי		

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COTTONWOOD 1 & 2	1.24	acre	RECLAIM	ED - INSPECT FOR	DELEVEE
Structural Removal		# units	units	\$/unit	
50 ton crane+operator+oiler		0	hrs	244.21	<u>\$</u>
2 laborers @ 15 hrs/each		0	hrs	35.00	0
welder (equip)+welder+helper		Ö	hrs	111.74	0
electrician		0	hrs	49.35	0 0
pickup truck		0	hrs	22.08	0
F		Ū	1113	22.00	U
Earthwork & Grading					
front end loader & operator		0	hrs	110.18	0
motor grader & operator		10	hrs	96.83	968
dump truck & operator		10	hrs	90.88	909
backhoe & operator		10	hrs	87.97	880
dozer & operator		8	hrs	226.10	1,809
					1,000
Capping					
concrete (in CY)		4	CY	90.00	360
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050
forms, etc. (SUM)		1	sum	250.00	250
rebar (SUM)		1	sum	100.00	100
<u>Revegetation</u>					
tractor + drill + operator		1.24	acre	83.45	103
seed mix		1.24	acre	160.00	198
fertilizer @ 200 lb/acre	_	1.24	acre	100.00	124
			Subtotal fo	r this site	\$6,751
Avg. cost per acre	4.50	\$5,445	2501 414		
	1.50	acre		D - INSPECT FOR	
Structural Removal		# units	units	\$/unit	\$
50 ton crane+operator+oiler		0	hrs	244.21	0
2 laborers @ 15 hrs/each welder (equip)+welder+helper		0	hrs	35.00	0
electrician		0	hrs	111.74	0
pickup truck		0 0	hrs	49.35	0
pickup truck		U	hrs	22.08	0
Earthwork & Grading					
front end loader & operator		0	hrs	110.18	0
motor grader & operator		10	hrs	96.83	968
dump truck & operator		10	hrs	90.88	909
backhoe & operator		10	hrs	87.97	880
dozer & operator		8	hrs	226.10	1,809
					-
<u>Capping</u>					
concrete (in CY)		4	CY	90.00	360
2 laborers @ 15 hrs/each		30	hrs	35.00	1,050
forms, etc. (SUM)		1	sum	250.00	250
rebar (SUM)		1	sum	100.00	100
_					
<u>Revegetation</u>					
tractor + drill + operator		1.5	acre	83.45	125
seed mix		1.5	acre	160.00	240
fertilizer @ 200 lb/acre	-	1.5	acre	100.00	150
			Subtotal fo	r this site	\$6,841
Avg. cost per acre		\$4,561			

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COWBOY 1 FEDERAL	3.3 acre			
Structural Removal	<u># units</u>	units	\$/unit	<u>\$</u>
50 ton crane+operator+oiler	10	hrs	244.21	2,442
2 laborers @ 15 hrs/each	30	hrs	35.00	1,050
welder (equip)+welder+helper	10	hrs	111.74	1,117
electrician	20	hrs	49.35	987
pickup truck	10	hrs	22.08	221
Earthwork & Grading				
front end loader & operator	0	hrs	110.18	•
motor grader & operator	10	hrs	96.83	0
dump truck & operator	10	hrs	90.88	968 909
backhoe & operator	10	hrs	87.97	880
dozer & operator	8	hrs	226.10	1,809
Conning				
Capping		~ ``		
concrete (in CY)	4	CY	90.00	360
2 laborers @ 15 hrs/each	30	hrs	35.00	1,050
forms, etc. (SUM)	1	sum	250.00	250
rebar (SUM)	1	sum	100.00	100
Revegetation				
tractor + drill + operator	3.3	acre	83.45	275
seed mix	3.3	acre	160.00	528
fertilizer @ 200 lb/acre	3.3	acre	100.00	330
	_	Subtotal fo	r this site	\$13,276
Avg. cost per acre	\$4,023 1 acre	PATENTED - OPEN CUT		
Structural Removal - NONE				
	# units	<u>units</u>	<u>\$/unit</u>	<u>\$</u>
50 ton crane+operator+oiler 2 laborers @ 15 hrs/each	0 0	hrs	244.21	0
welder (equip)+welder+helper	0	hrs hrs	35.00 111.74	0
electrician	0	hrs	49.35	0
pickup truck	10	hrs	22.08	221
pickup truck	10	1115	22.00	221
Earthwork & Grading		_		_
front end loader & operator	0	hrs	110.18	0
motor grader & operator	0	hrs	96.83	0
dump truck & operator	15	hrs	90.88	1,363
backhoe & operator	15	hrs	87.97	1,320
backhoe & operator dozer & operator				
dozer & operator Capping	15	hrs	87.97	1,320
Capping concrete (in CY)	15	hrs	87.97	1,320
Capping concrete (in CY) 2 laborers @ 15 hrs/each	15 12	hrs hrs	87.97 226.10	1,320 2,713
Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM)	15 12 10 30 2	hrs hrs	87.97 226.10 90.00	1,320 2,713 900
Capping concrete (in CY) 2 laborers @ 15 hrs/each	15 12 10 30	hrs hrs CY hrs	87.97 226.10 90.00 35.00	1,320 2,713 900 1,050
Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM)	15 12 10 30 2	hrs hrs CY hrs sum	87.97 226.10 90.00 35.00 250.00	1,320 2,713 900 1,050 500
Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation	15 12 10 30 2 2	hrs hrs CY hrs sum sum	87.97 226.10 90.00 35.00 250.00 100.00	1,320 2,713 900 1,050 500 200
Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM)	15 12 10 30 2	hrs hrs CY hrs sum sum	87.97 226.10 90.00 35.00 250.00 100.00	1,320 2,713 900 1,050 500 200
Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator seed mix	15 12 10 30 2 2	hrs hrs CY hrs sum sum	87.97 226.10 90.00 35.00 250.00 100.00 83.45 160.00	1,320 2,713 900 1,050 500 200
dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator	15 12 10 30 2 2	hrs hrs CY hrs sum sum acre acre acre acre	87.97 226.10 90.00 35.00 250.00 100.00 83.45 160.00 100.00	1,320 2,713 900 1,050 500 200 83 160 100
Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator seed mix	15 12 10 30 2 2	hrs hrs CY hrs sum sum	87.97 226.10 90.00 35.00 250.00 100.00 83.45 160.00 100.00	1,320 2,713 900 1,050 500 200

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COWBOY SECTIONS 4-3	1 acre		PATENTED - O	PEN CUT
Structural Removal - NONE	# units	units	\$/unit	\$
50 ton crane+operator+oiler	0	hrs	<u>\$741111.</u> 244.21	
2 laborers @ 15 hrs/each	0	hrs	35.00	0
welder (equip)+welder+helper	0	hrs		0
electrician	0		111.74	0
pickup truck		hrs	49.35	0
pickup truck	40	hrs	22.08	883
Earthwork & Grading - OPEN CUT				
front end loader & operator	50	hrs	110.18	5,509
motor grader & operator	0	hrs	96.83	0
dump truck & operator	10	hrs	90.88	909
backhoe & operator	100	hrs	87.97	8,797
dozer & operator	0	hrs	226.10	0,737
and the special control of the special contro	J	0	220.10	U
Capping -OPEN CUT				
concrete (in CY)	167	CY	90.00	15,030
2 laborers @ 15 hrs/each	160	hrs	35.00	5,600
forms, etc. (SUM)	27	sum	250.00	6,750
rebar (SUM)	25	sum	100.00	2,500
Revegetation				
tractor + drill + operator	4	0010	00.45	00
seed mix	1	acre	83.45	83
	1	acre	160.00	160
fertilizer @ 200 lb/acre	1	acre	100.00	100
Avg. cost per acre	\$4 6,321	Subtotal	for this site	\$46,321
COWBOY NORTH VEIN - 1	2 acre		BLM BOND	VERIFY ACREAGE
Structural Removal		unito		
	# units	<u>units</u>	<u>\$/unit</u>	<u>\$</u>
50 ton crane+operator+oiler	10	hrs	244.21	2,442
2 laborers @ 15 hrs/each	30	hrs	35.00	1,050
welder (equip)+welder+helper	10	hrs	111.74	1,117
electrician	20	hrs	49.35	987
pickup truck	10	hrs	22.08	221
Earthwork & Grading				
front end loader & operator	0	hrs	110.18	0
motor grader & operator	10	hrs	96.83	968
dump truck & operator				
	10	hrs	90.88	909
			90.88 87.97	909 880
backhoe & operator	10 10 8	hrs	87.97	880
backhoe & operator dozer & operator	10			
backhoe & operator	10	hrs	87.97	880
backhoe & operator dozer & operator	10	hrs	87.97	880
backhoe & operator dozer & operator Capping	10 8	hrs hrs	87.97 226.10	880 1,809 2,250
backhoe & operator dozer & operator Capping concrete (in CY)	10 8 25 40	hrs hrs	87.97 226.10 90.00	880 1,809 2,250 1,400
backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each	10 8 25	hrs hrs CY hrs	87.97 226.10 90.00 35.00	880 1,809 2,250
backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM)	10 8 25 40 5	hrs hrs CY hrs sum	90.00 35.00 250.00	880 1,809 2,250 1,400 1,250
backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation	10 8 25 40 5 5	hrs hrs CY hrs sum sum	87.97 226.10 90.00 35.00 250.00 100.00	880 1,809 2,250 1,400 1,250 500
backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator	10 8 25 40 5 5	hrs hrs CY hrs sum sum	87.97 226.10 90.00 35.00 250.00 100.00	880 1,809 2,250 1,400 1,250 500
backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator seed mix	10 8 25 40 5 5	hrs hrs CY hrs sum sum	87.97 226.10 90.00 35.00 250.00 100.00 83.45 160.00	880 1,809 2,250 1,400 1,250 500
backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator	10 8 25 40 5 5	hrs hrs CY hrs sum sum	87.97 226.10 90.00 35.00 250.00 100.00 83.45 160.00 100.00	880 1,809 2,250 1,400 1,250 500 167 320 200
backhoe & operator dozer & operator Capping concrete (in CY) 2 laborers @ 15 hrs/each forms, etc. (SUM) rebar (SUM) Revegetation tractor + drill + operator seed mix	10 8 25 40 5 5	hrs hrs CY hrs sum sum	87.97 226.10 90.00 35.00 250.00 100.00 83.45 160.00	880 1,809 2,250 1,400 1,250 500

Reclamation Surety Estimate

Ziegler Chemical & Mineral Corporation

M/047/013

Uintah County, Utah

Prepared by Utah Division of Oil, Gas & Mining

Iast revision

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ZI-95-1 4.55	acre	NEED INS	PECTION TO VE	RIFY CONDITIONS
Structural Removal	# units	units	\$/unit	
50 ton crane+operator+oiler	10	hrs	244.21	<u>\$</u> 2,442
2 laborers @ 15 hrs/each	30	hrs	35.00	1,050
welder (equip)+welder+helper	10	hrs	111.74	1,117
electrician	20	hrs	49.35	987
pickup truck	10	hrs	22.08	221
, , , , , , , , , , , , , , , , , , , ,		11.0	22.00	221
Earthwork & Grading				
front end loader & operator	0	hrs	110.18	0
motor grader & operator	25	hrs	96.83	2,421
dump truck & operator	10	hrs	90.88	909
backhoe & operator	0	hrs	87.97	0
dozer & operator	25	hrs	226.10	5,653
Capping				
concrete (in CY)	4	CY	90.00	360
2 laborers @ 15 hrs/each	30	hrs	35.00	1,050
forms, etc. (SUM)	1	sum	250.00	250
rebar (SUM)	1	sum	100.00	100
Revegetation				
tractor + drill + operator	4.55		00.45	222
seed mix	4.55	acre	83.45	380
fertilizer @ 200 lb/acre	4.55	acre	160.00	728
reruitzer @ 200 ib/acre	4.55	acre Subtotal for	100.00	455
Avg. cost per acre	\$3 ,983	Sublotario	tills site	\$18,122
PROCESSING FACILITIES 19.20		,		
FRUCESSING FACILITIES 19.20) acre			
		umita	¢1	*
Structural Removal	# units	<u>units</u>	<u>\$/unit</u>	\$ 0.700
Structural Removal 50 ton crane+operator+oiler	<u># units</u> 40	hrs	244.21	9,768
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each	# units 40 80	hrs hrs	244.21 35.00	9,768 2,800
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper	# units 40 80 20	hrs hrs hrs	244.21 35.00 111.74	9,768 2,800 2,235
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician	# units 40 80 20 40	hrs hrs hrs hrs	244.21 35.00 111.74 49.35	9,768 2,800 2,235 1,974
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper	# units 40 80 20	hrs hrs hrs	244.21 35.00 111.74	9,768 2,800 2,235
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck	# units 40 80 20 40	hrs hrs hrs hrs	244.21 35.00 111.74 49.35	9,768 2,800 2,235 1,974
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician	# units 40 80 20 40	hrs hrs hrs hrs	244.21 35.00 111.74 49.35 22.08	9,768 2,800 2,235 1,974 1,766
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck Earthwork & Grading	# units 40 80 20 40 80	hrs hrs hrs hrs	244.21 35.00 111.74 49.35 22.08	9,768 2,800 2,235 1,974 1,766
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator	# units 40 80 20 40 80	hrs hrs hrs hrs	244.21 35.00 111.74 49.35 22.08 110.18 96.83	9,768 2,800 2,235 1,974 1,766 3,305 2,905
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator	# units 40 80 20 40 80 30	hrs hrs hrs hrs hrs	244.21 35.00 111.74 49.35 22.08	9,768 2,800 2,235 1,974 1,766 3,305 2,905 5,453
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator	# units 40 80 20 40 80 30 60	hrs hrs hrs hrs hrs	244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88	9,768 2,800 2,235 1,974 1,766 3,305 2,905
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator dozer & operator	# units 40 80 20 40 80 30 60 20	hrs hrs hrs hrs hrs hrs	244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97	9,768 2,800 2,235 1,974 1,766 3,305 2,905 5,453 1,759
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator dozer & operator Revegetation	# units 40 80 20 40 80 30 30 30 60 20 30	hrs hrs hrs hrs hrs hrs hrs hrs	244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10	9,768 2,800 2,235 1,974 1,766 3,305 2,905 5,453 1,759 6,783
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator dozer & operator Revegetation tractor + drill + operator	# units 40 80 20 40 80 30 60 20 30	hrs hrs hrs hrs hrs hrs hrs hrs hrs acre	244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10	9,768 2,800 2,235 1,974 1,766 3,305 2,905 5,453 1,759 6,783
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator backhoe & operator dozer & operator Revegetation tractor + drill + operator seed mix	# units 40 80 20 40 80 30 30 60 20 30 19.2 19.2	hrs hrs hrs hrs hrs hrs hrs hrs acre acre	244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10	9,768 2,800 2,235 1,974 1,766 3,305 2,905 5,453 1,759 6,783
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator dozer & operator Revegetation tractor + drill + operator	# units 40 80 20 40 80 30 60 20 30	hrs hrs hrs hrs hrs hrs hrs acre acre acre	244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 83.45 160.00 100.00	9,768 2,800 2,235 1,974 1,766 3,305 2,905 5,453 1,759 6,783 1,602 3,072 1,920
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator backhoe & operator dozer & operator Revegetation tractor + drill + operator seed mix fertilizer @ 200 lb/acre	# units 40 80 20 40 80 30 30 60 20 30 19.2 19.2 19.2	hrs hrs hrs hrs hrs hrs hrs hrs acre acre acre	244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 83.45 160.00 100.00	9,768 2,800 2,235 1,974 1,766 3,305 2,905 5,453 1,759 6,783
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator backhoe & operator dozer & operator Revegetation tractor + drill + operator seed mix	# units 40 80 20 40 80 30 30 60 20 30 19.2 19.2	hrs hrs hrs hrs hrs hrs hrs hrs acre acre acre	244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 83.45 160.00 100.00	9,768 2,800 2,235 1,974 1,766 3,305 2,905 5,453 1,759 6,783 1,602 3,072 1,920
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator dozer & operator Revegetation tractor + drill + operator seed mix fertilizer @ 200 lb/acre	# units 40 80 20 40 80 30 30 60 20 30 19.2 19.2 19.2 \$2,362	hrs hrs hrs hrs hrs hrs hrs hrs hrs acre acre acre Subtotal for	244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 83.45 160.00 100.00 r this site	9,768 2,800 2,235 1,974 1,766 3,305 2,905 5,453 1,759 6,783 1,602 3,072 1,920 \$45,343
Structural Removal 50 ton crane+operator+oiler 2 laborers @ 15 hrs/each welder (equip)+welder+helper electrician pickup truck Earthwork & Grading front end loader & operator motor grader & operator dump truck & operator backhoe & operator backhoe & operator dozer & operator Revegetation tractor + drill + operator seed mix fertilizer @ 200 lb/acre	# units 40 80 20 40 80 30 30 60 20 30 19.2 19.2 19.2	hrs hrs hrs hrs hrs hrs hrs hrs hrs acre acre acre Subtotal for	244.21 35.00 111.74 49.35 22.08 110.18 96.83 90.88 87.97 226.10 83.45 160.00 100.00	9,768 2,800 2,235 1,974 1,766 3,305 2,905 5,453 1,759 6,783 1,602 3,072 1,920

Reclamation Surety Estimate

Ziegler Chemical & Mineral Corporatic

M/047/013

Uintah County, Utah

Prepared by Utah Division of Oil, Gas & Mining

Iast revision

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RECLAMATION SUMMARY ZIEGLER M/047/013			12-Apr-01	
		SL BOND	<u>\$</u>	ACRES
Independent 2			12,624	1.40
Independent 3			6,800	1.38
Independent 4			8,150	1.41
Independent 5	SL BOND \$5,000	1,050	12,555	1.20
Little Bonanza 1			3,975	0.50
Little Bonanza 3			12,534	1.14
Little Bonanza 8			12,692	1.60
Little Bonanza 8a			6,669	1.00
Little Bonanza 11			12,490	1.01
Little Bonanza 12			12,662	1.51
Main #1			6,669	1.00
Main #2			4,909	1.00
Little Emma 1			12,521	1.10
Little Emma - 7			6,703	1.10
Cottonwood 1 & 2	SL BOND \$5,000	360	6,751	1.24
Cottonwood 3	SL BOND \$7,500	1,050	6,841	1.50
Cowboy 1 - Federal			13,276	3.30
Cowboy Lots 2-1			8,610	1.00
Cowboy sections 4-3			46,321	1.00
Cowboy North Vein 1			16,470	2.00
ZI-95-1			18,122	4.55
Processing facilities			45,343	19.20
Project supervision			24,125	NA
Mobilization			8,000	NA
subtotal			325,813	
	contingency		32,581	
subtotal			358,395	
	s escalation @ 3.12%		59,509	
TOTAL			417,903	
ROUNE	DED TOTAL IN 20	06 - \$	\$417,900	DRAFT

50.14

\$8,335

total acreage =

overall avg. cost per acre =